ZAKIROV, Tadzhitdin Salidzhanovich, kand. sel'khoz. nauk; GORELIK, I.M., red.; ABBASOV, T., tekhn. red.

[Chemical defoliation and desiccation of cotton] Khimicheskoe udalenie list'ev i vysushivanie khlopchatnika. Tashkent, Gosizdat UziSSR, 1962. 81 p. (MIRA 17:1) (Cotton-Harvesting) (Defoliation)

ACC NRI A DECADORD AND TO THE ENT(1) RO

AP6030279 (AN) SOURCE CODE: UR/0394/66/004/008/0045/0048

AUTHOR: Zakirov, T. S.; Vasilevskiy, I. G.

ORG: All-Union Scientific Research Institute of Cotton Growing (Vsesoyuznyy nauchno-issledovatel'skiy institut khlopkovodstva)

TITLE: Results of tests of butyfos effectivity on cotton plants

SOURCE: Khimiya v sel'skom khozyaystve, v. 4, no. 8, 1966, 45-48

TOPIC TAGS: cotton, defoliant agent, butyfos, cotton bolls

ABSTRACT: In 1962-1964, tests were made in various cotton growing areas of Kazakhstan to determine the effectiveness of butyfos as a cotton plant defoliant. Of It was found that butyfos is the most effective cotton plant defoliant, although results are not satisfactory for fine fiber cottons. A concentrate of butyfos emulsion was found to be more effective and convenient than an oil solution. The gompound was sprayed from the air and from the ground. A 2 kg/ha solution of butyfos is the best dose to use on cotton plants when 2--3 bolls are open on most plants. The dose must be increased to 3--4 kg/ha for large and highly productive plants, and also during late treatment and when the mean daily temperature is low.

Orig. art. has: 3 tables. [W.A. 50]

ard 1/1 SUB CODE: 02, 06, 07/ SUBM DATE: 20Jul65/ UDC: 631. 551. 633. 51

Connection between initial copper mineralization and fissility of rocks. Uzb.geol.zhur. no.5:49-53 '58. (MIRA 12:2)

1. Institut geologii AN UsSSR.
(Tashkent region—Copper ores)

ZAKIROV, T. Z.; RUZMATOV, S. R.

Characteristics of the postore anhydrite mineralization of the Kalmakkyr deposit. Uzb. geol. zhur. 6 no.5:79-82 '62.

(MIRA 15:10)

1. Institut geologii AN Uzbekskoy SSR.

(Almalyk region—Anhydrite)
(Almalyk region—Ore deposits)

CHI INTERNITE DE LE COMPTE DE L

BAYMUKHAMEDOV, Kh.N.; ZAKIROV, T.Z.; ARIFDZHANOV, T.Kh.; KURBANOV, A.S.

Geology and conditions governing the distribution of mineralization of some gold-ore deposits in Usbekistan.

Uzb. geol. zhur. 7 no.3:11-18 '63. (MIRA 16:11)

1. Tashkentskiy politekhnicheskiy institut.

BAYMUKHAMEDOV, Kh.N.; ZAKIROV, T.Z.; SADYKOVA, A.S.

Characteristics of the concentration of molybdenum in rostmagmatic deposits in some ore regions of Uzbekistan. Uzb. geol. zhur. 8 no.l: 7-12 '64. (MIRA 18:5)

1. Tashkentskiy politekhnicheskiy institut.

ZAKIROV, U.

Moving Pictures

Valuable experience. Kinomekhanik No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

On the upswing. Mest.prom.i khud.promys. 2 no.7:34 vl '61 (MiR. 15:1)

1. Ministr promyshlennosti prodovol stvennykh tovarov Tatarskoy ASSR, g. Kazan'. (Tatar A.S.S.R.--Food industry)

ZAKIROV, U.A., starshiy leytenant; ZAGORSKIY, B.S., starshiy leytenant;
EUKANSKIY, N.N., kapitan.

Working with the IS-0,9 range finder. Artill. zhur. no.9-13 Ja '58.

(Range-finding)

ZAKIROV, U.B.

Antiemetic effects of meterazine. Farm. i toks. 24 rm.4:422-425 Jl-Ag '61. (MRA 14:9)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. V.V.Zakusov) Instituta farmakologii i khimioterapii AMN SSSR.

(PHENOTHIAZINE)

eriografica en la composito de SOURCE CODE: UR/0417/66/000/009/0025/0025 ACC NR: AR6033654 Umarova, Sh, S.; Zakirov, U. B.; Kamilov, I. K. AUTHOR: ORG: none TITLE: Comparative evaluation of the effects of quaternary galantamine derivatives SOURCE: Ref. zh. Farmakologiya, khimioterapevticheskiye sredstva, toksikologiya. Abs. 9.54.155 REF SOURCE: Sb. Farmakol. alkaloidov. Vyp. 2. Tasikent, Nauka, 1965, 258-263 TOPIC TAGS: pharmacolopy, galantamine, alkaloid, drug effect, quaternary amine ABSTRACT: The pharmacological effects of galantamine hydroxymethylate, hydroxyethylate, hydroxyisopropylate, hydroxybutylate, and hydroxyamylate were studied. In rabbits doses from 0.1-3 mg/kg produced constriction of the pupils, muscular fibrillation and lacrimation. Five to ten mg/kg doses caused peristaltic movements of the intestine, urina tion, and defecation. Eleven mg/kg doses produced death from respiratory failure. Corresponding tertiary compounds required higher doses to produce the same effects. Galantamine derivatives produced more peripheral neuro-muscular activity than galantamine hydrobromide (ater-UDC: 615.785.4 Card 1/2

tiary compound). The most effective compound was galantamine hydroxy-methylate which, when administered in 0.05 mg/kg doses, increased the amplitude of muscle contraction by 46%. [W.A. 50]							he
SUB CODE:	06/ SU	BH DATE:	none				
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Effect of metherazine on conditioned reflex activity. Farm. toks.
24 no.3:271-275 My-Je '61.

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlon AMN SSSR prof. V.V. Zakusov) Instituta farmakologii i khimiotorapii AMN SSSR.

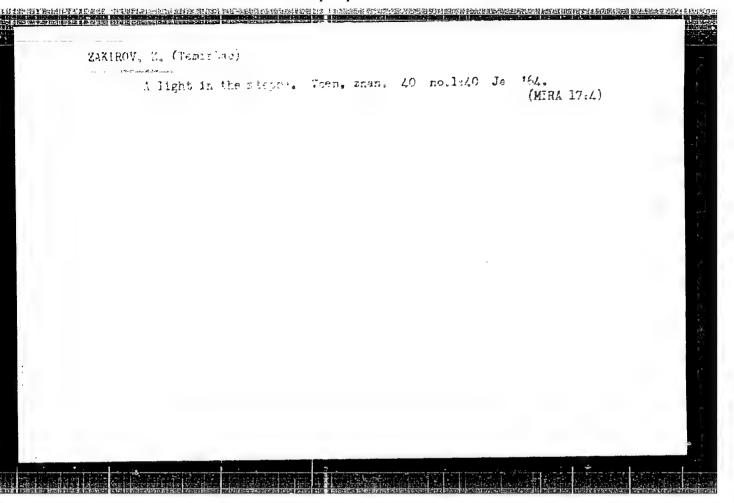
(CONDITIONED RESPONSE) (PHENOTHIAZINE_PHYSIOLOGICAL EFFECT)

ALIYEV, Kh.U.; KAMIJOV, I.K.; ZAKIROV, U.B.

Pharmacological properties of apochlorine (methyl apogalanthamine hydrochloride). Dokl. AN Uz. SSR 21 no.9:50-51 '64.

(MIRA 19:1)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR.



ZAKIROV, Z.Sh.

137-58-5-10245

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 193 (USSR)

Zakirov, Z.Sh. AUTHOR:

Internal Stresses in Platings (Vnutrenniye napryazheniya v TITLE:

gal'vanicheskikh pokrytiyakh)

PERIODICAL: Dokl. AN TadzhSSR, 1957, Nr 20, pp 79-82

A more precise method of determining internal stresses (IS) ABSTRACT:

in platings by the bending of the cathode plate is set forth. The initial IS in galvanic coatings on the undeformed cathode are equal to the sum of the final IS and those removed in the deform-

ation of the plate, i.e., $\sigma_{\text{prim}} = \sigma_{\text{fin}} + \sigma_{\text{rem}}$, where $\sigma_{\text{fin}} = 2\epsilon I/\rho \text{ hF}_2$; $\sigma_{\text{rem}} = E/\rho \sqrt{I/F}$; and $E = \sqrt{E_1.E_2}$; E_1 being the modulus of elasticity of the plate, E2 the modulus of elasticity of the coating; I the moment of inertia, and F the crosssectional area of the plate; Q the radius of curvature of the neutral layer; h the total thickness of plate and coating; and F2 the cross-sectional area of the coating. Scattering of the results ob-

tained with this equation, according to the author's data, does 1. Plating--Stresses 2. Stress analysis .3. Cathodes

not exceed 10%. Card 1/1 (Electrolytic cell) -- Properties

LI, A.D.; ZAKIROV, P.E.

Find of Juniperus seravschanica Kom. on the Mura-Tan Range.
Bot.shur. 44 no.9:1336-1337 S '59. (MIRA 13:2)

1. Institut botaniki AM UESSR, Tashkent.
(Mura-Tan-Juniper)

GRAF, L.; KISELEV, A.; ZAKIREV-ZIYEV, A.

Sand-jet drilling as a means for decreasing the degree of hole deviation. Izv. vys. ucheb. zav.; gool. i razv. 7 no.9:109-113 S 164.

(MIRA 17:10)

1. Gosudarstvennyy geologicheskiy komitet.

KOGAN, D.I.; KISELEV, A.T.; ZAKIROV-ZIYEV, A.

Introducing rock-breaking bits in hydraulic percussion drilling. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no.3:15-17 Mr '65.

(MIRA 18:5)

ACC NR: AP7002452

SOURCE CODE: UR/0362/66/002/011/1200/1201

AUTHOR: Golubitskiy, B. M.; Zakirova, A. R.; Tantashev, M. V.

ORG: none

TITLE: Monte Carlo calculation of radiation transport in a homogeneous scattering sphere with a central point source

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 11, 1966, 1200-1201

TOPIC TAGS: transport phenomenon, radiation source, electromagnetic wave scattering, Monte Carlo method, angular distribution

ABSTRACT: The article deals with the angular distribution of radiation on the boundary of a homogeneous scattering sphere, in the center of which is situated an isotropic point source, using the only assumption that the scattering medium consists of a set of individually non-absorbing spherical particles, such as were discussed by D. Deiermenjian (Appl. Opt. v. 2, 187, 1964). The calculations were made with the 'Ural'-2' computer by the Monte Carlo method, making use of a known relation between any random number and its arbitrary distribution density, in this case the distribution density of the mean free paths and the scattering angles. The results were found to be in good agreement with trial calculations by means of numerical integration. It is indicated that the method can be used for calculations with arbitrary

Card 1/2

UDC: 535.36

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ACCESSION NR: AP4019974

5/0020/64/154/006/1325/1327

AUTHOR: Zakirova, F. S.

TITLI: Change of electric conductivity of minerals and ores with age

SOURCE: AN SSSR. Doklady*, v. 154, no. 6, 1964, 1325-1327

TOPIC TAGS: mineral conductivity, electric conductivity, aging, age determination, gas evolution, mineral, potassium 40, calcium 40, mica, feldsper

ABSTRACT: The author has found that the amount of gas (mainly hydrogen) which evolves from mica and feldspar upon heating depends upon the age of the mineral. Furthermore, it has been found that the conductivity of these minerals, upon heating from room temperature to 1150C, also depends upon the age. The calibration of conductivity as a function of age was prepared with minerals of known age. The age of over 200 specimens was determined by this method. The dependence of the conductivity on age is explained by the presence of K⁴⁰ in the minerals. The \$\int_{\text{-}}\$-decay of K⁴⁰, which is monovalent, into Ca⁴⁰ with a valence

Card 1/2

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	ACCESSION NR: AP4019974
	of two, and also the A-irradiation should increase the activation energy and decrease the conductivity. Orig. art. has: 1 figure and 2 tables.
	ASSOCIATION: None
	SUBMITTED: 10Sep62 ENCL: 00
	SUB CODE: MT, EM NO REF SOV: 009 OTHER: 006
į	Card 2/2

AUTHOR:

YASNOPOL'SKIY, N.L., DYLLOT A.E.

109-6-17/17

TITLE:

Interdepartmental Seminar on Cathoge Electronics. (Mezhduve-

domstvennyy seminar po katodnoy elektronike, Russian)

PERIODICAL:

Radiotekhnika i Elektronika, 1957, Vol 2, Nr 6, pp 814-816

(U.S.S.R.)

ABSTRACT:

At the 5. meeting on the 8. April 1957 the following lectures

were delivered:

M.N. VUDYNSKIY showed that irradiation of the screen surfaces of electron beam tubes by a de-focussed bundle leads to the production of three kinds of dark spots on the screen. On this occasion the surface potential of the non-conductor changes in

two stages. I.R.ZAKIROVA and S.A.FRIDRIKHOV gave a report on the kinetics of the production of a charge on the non-conductor surfaces (glass, mica) under the effect of a bombardment by electrons (in the interval of from 20 to 15000 eV).

G.S.KOZINA spoke about the peculiarities of the secondary emission of thin free aluminum oxide films (0.05 - 0.2 \mu). M.M. VUDYNSKIY gave a short report on the dependence of the coefficient of secondary electron emission upon the angle of incidence of the primary electrons for mica and semiconductor glass.

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109-6-17/17

Interdepartmental Seminar on Cathode Electronics.

V.B. KRUSSER gave a survey of the history, the present stage, and the ways of development of transmission television tubes in the U.S.S.R. He indicated the ways and means of further development. (With 3 Slavic References).

ASSOCIATION:

Not given

PRESENTED BY:

SUBMITTED:

20.4.1957

AVAILABLE:

Library of Congress

Card 2/2

ZAKIROVA, I.P.

109-3-4/23

'AUTHORS: Shul'man, A.R., Zakirova, I.R., Morozov, Yu.A. and

Fridrikhov, S.A.

The Problem of the Method of Investigation of Secondary

Electron Emission of Non-metallic Substances (K voprosu o metode issledovaniya vtorichnoy elektronnoy emissii

nemetallicheskikh veshchestv)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol. III. No.3, pp. 329 - 338 (USSR).

ABSTRACT: Description of a method of the measurement of secondary electron emission is given. The method is characterised by the following features: reduction in the time necessary for the experiments, increased accuracy, good stability of the measuring system and the target and elimination of the ternary electrons. The main component of the experimental equipment used in the measurements is a spherical, glass bulb fitted with apertures for a target and an electron gun. Diameter of the sphere is 145 mm. The electron gun is of the standard type and is provided with a focusing electrode; it is also furnished with a reflecting diaphragm which eliminates the scattered electrons from the beam of the gun. The diaphragm is given a potential near to that of the cathode. The Cardl/4 gun is screened by means of a nickel cylinder. The target is

The Problem of the Method of Investigation of Secondary Electron Emission of Non-metallic Substances

in the form of a round, flat box having a diameter of 16 mm and is fitted with a helical heater. The target is fixed on to molybdenum supports and provided with a pair of leads for supplying the current to the heater. The heater can be earthed. The supporting wires of the target are taken to the input of an amplifier. The effect of ternary electrons is reduced by placing a spherical molybdenum grid, having a diameter of 125 mm, between the collector and the target. The transparency of the grid is of the order of 0.9. The grid has an aperture with a diameter of 40 mm for the leads of the target; another aperture, having a diameter of 16 mm, is provided for the primary electron beams (impinging on the target). Both the glass sphere and the grid are coated with silver by means of an evaporation process carried out in vacuum. For the analysis of secondary electron energies, a de-celerating potential U, is applied between the target and the grid; a potential is applied between the grid and the collector, which accelerates the secondary electrons and slows down the ternary ones. The full experimental equipment (which was built around the spherical condenser) is shown in Fig.1. This consists of

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The Problem of the Method of Investigation of Secondary Electron Emission of Non-metallic Substances

the above mentioned electron gun, the collector and the antidynatron grid and contains the following units: supplies for the electron gun, a rotary potentiometer, supplies for the potentiometer, a synchronous motor, a registering instrument, a delay circuit, a rectangular pulse generator, an amplifier, a pulse lengthener an oscillograph with a triggered time base; an automatic switching device and a synchronous motor driving the tape of the registering device. The functioning of the equipment and its applicability to the measurement of the secondary electron emission was thoroughly investigated. was found that the equipment could be used for single-pulse measurements as well as for the investigation by means of periodically repeated pulses; in particular, it was possible to obtain good reproducibility of the secondary emission coefficient. The effect of the anti-dynatron grid on the secondary emission current is illustrated by the curves of Figs. 5, 6, 7 and 8. From these, it is concluded that Ug should be of the order of 100 V. The stability of the primary electron current is an important factor in the equipment, Card3/4 especially when the de-celerating potential U

109-3-4/23
The Problem of the Method of Investigation of Secondary Electron
Emission of Non-metallic Substances

it was found that the primary current as a function of U_3 did not vary more than 1 to 2%. Some measurements on the distribution of the secondary electron energies were carried out. The resulting curves are shown in Fig. 12. The Curve 1 of Fig.12 was taken for Ni at $U_3 = -V_p$ (where V_p is the accelerating potential of the primary electrons); this curve is in good agreement with the results obtained by R. Warnecke (Ref.11), which are represented by Curve 2. There are 12 figures and 12 references, of which 6 are English, 5 Russian and 1 German.

SUBMITTED: February 18, 1957

AVAILABLE: Library of Congress

Card 4/4

AUTHORS: Zakirova, I. R., Fridrikhov, S. A. 48-22-5-9/22

TITLE: The Kinetics of the Charge Accumulation by the Surface of

Dielectrics During Irradiation by an Electron Beam (Kinetika nakopleniya zaryada poverkhnost'yu dielektrika pri obluchenii elektronnym puchkom) Data From VIIIth All-Union Conference on Cathode Electronics. Leningrad, October 17-24, 1957

(Materialy VIII Vsescyuznogo soveshchaniya po katodnoy elektro-

nike, Leningrad, 17-24 oktyabrya 1957 g.)

PERIODICAL: Izvestiya Akademii Nauk SSSR. Seriya Fizicheskaya, 1958,

Vol. 22, Nr 5, pp. 546 - 555 (USSR)

ABSTRACT: If charged particles strike the surface of a dielectric or

an insulated metal body, these object become charged. The velocity of the charge accumulation and the quantity of the charge wader equilibrium conditions depend on a number of factors which are determined by the properties of the surface that is to be charged and by the quantity of the impinging and the flying off particles. On the one side the charging of the dielectric surfaces can be undesired (e.g. in electrovacuum de-

vices (Reference 1), on the other hand the operation of several

Card 1/4 electrovacuum devices (References 2,3) is based upon the uti-

The Kinetics of the Charge Accumulation by the Surface 48-22-5-9/22 of Dielectrics During Irradiation by an Electron Beam

lisation of the phenomenon of charging. Therefore the interest in the mechanism of formation and in the behavior of the charge spot on the surface of the dielectric. A survey of the publications dealing with the same subject is given. The authors applied a new pulse method for the investigation of the forand disappearing kinetics of the charges on the surface of the dielectrics by a bombardment by electrons. It was found that from a certain instant (the moment of the disturbance of the condition of the full decrease of the secondary current) onward the velocity of the charge accumulation on the surface of the dielectric decreases. For this the influence of the fields is responsible, which are caused by the formation of the charge spot itself. This leads to the fact that in general case the surface of the dielectric obtains the quantity of electricity which would be sufficient for the charging of the target surface unto the collector potential neither during the occuring of the quasisteady state $t_{\alpha s}^{-}$ nor even lessyrithin the period τ .

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The latter cannot be reached at all because of an extremely slow charge accumulation after the reaching of the quasisteady state

The Kinetics of the Charge Accumulation by the Surface 48-22-5-9/22 of Dielectrics During Irradiation by an Electron Beam

and because of a noticeable role which the leakages can play in this case. It was proved that the duration & during which the conditions of a full decrease of the secondary current are maintained linearly increases with the intensity of the collector field. Thus the quantity of electricity which was accumulated by the surface of the dielectric (at the movements τ and t_{qs}) depends at the concerned collector potential on the geometrics of the device. The so called barrier-net also serves for the increase of the period & i.e. for the dasponing of the potential relief and for the acceleration of the process of charging unto the prescribed potential during the bombardment of the dielectric by means of an electron beam. The quantities and t are independent of the energies of the bombarding electrons. Under given concrete conditions they are determined by the quantity of the accumulated charge. This plot was suggested by A. R. Shul'man who assisted as an advisor. In the performance of the work V. V. Bashenko and T.A. Koryakina took part (measurements). In the discussion on the abstract V. Ya. Upatov, A. V. Morozov, L. N. Dobretsov, A. A. Mostovskiy and the first

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The Kinetics of the Charge Accumulation by the Surface 48-22-5-9/22 of Dielectrics During Irradiation by an Electron Beam

author participated. There are 12 figures and 9 references, 7 of which are Soviet.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnical Institute imeni M. I. Kalinin)

1. Dielectrics---Electrical properties 2. Dielectrics---Surface properties 3. Electron beams---Applications

Card 4/4

ZATIROVA, I.K.

AUTHORS:

Shul'man, A. R., Zakirova, I. R., Morozov,

57-1-13/30

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Yu. A., Fridrikhov, S. A.

TITLE:

Secondary Electron Emission of Nickel (Vtorichnaya

elektronnaya emissiya nikelya)

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Hr 1,

pp. 87-96 (USSR)

ABSTRACT:

The task of the present work was to close the gaps existing in literature regarding the energy spectra of secondary electrons emitted by metals, as well as to obtain data on the distribution of secondary electrons according to energies in nickel. That is to say of all those which are emitted within the whole range of secondary electron energy at various V p

(energy of primary electrons) of from 200 to 2000 V with nickel. Starting from the data on the distribution of secondary electrons according to energies the problem of the importance of the quantities obtained at the investigation of the basic dependence (which characterizes the secondary emission characteristics of the material - of the dependence of the coefficients of the electron emission on V is dealt with. The method of spherical condenser with a spheric

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Secondary Electron Emission of Nickel

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suppressor grid was used. The method of the automatic recording of measuring results, as described in reference 2, was also used. As result of the investigation the following can be stated: 1) Tertiary electrons emitted from the collector exercize an essential influence on the measuring results of secondary current in the retarding field. The introduction of the suppressor grid offers the possibility to essentially decrease the influence of tertiary electrons and thereby to obtain much more reliable data than was earlier the case. The distribution of the secondary electrons according to the energies of from 0 to V was investigated. Complete lag curves for nickel were obtained at $V_{\rm p}$ of from 200 to 2000 V. 2) In the spectrum of the secondary electrons it is not possible to draw a limiting line between the reflected primary and the real secondary electrons. Apparently both kinds of electrons are represented in all parts of the spectrum. With small energies of secondary electrons assumption that real secondary electrons are of dominating importance is reasoned. For the analysis of the energy spectrum of electrons (of nickel) an assumed border between slow and quick secondary electrons, equal to

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Secondary Electron Emission of Nickel

57-1-13/30

loo eV, is chosen. 3) The basic fact resulting from the measurements is that in the spectrum of secondary electrons of metals the relative number of quick electrons can be compared with that of slow electrons. The width of the maximum corresponding to the slow real secondary electrons is a little greater than was earlier assumed. In order to mark the number of quick secondary electrons magnitudes are introduced as follows: y - the part of quick electrons in secondary current and \eta - the ratio between the number of quick electrons and the quantity of the primary current. y increases linearly with the increase of V and reaches up to 26% of the total number of secondary electrons at 1600. \eta is only little dependent on V and is equal to 33% of the primary current value at 1600. 47 The retardation vurves in relative coordinates coincide with one-another only if V is greater than 1200 V. If V values are smaller the curves differ. 5) With all values applied for V an elastic reflexion of primary electrons takes place. The reflection coefficient at V > 800 V is not greater than 3% of the total number of primary electrons. 6) When primary current is measured in the circuit of the target in the case of not complete

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Secondary Electron Emission of Nickel

57-1-13/30

blanking of secondary electrons for the coefficient of secondary emission σ_T a value was obtained which differs from that of total retardation of secondary electrons. 7) In order to mark the emission of slow electrons the magnitudes σ_T and σ_T can be used (coefficient of the emission of slow electrons). As the existing theories only take into account the stimulation of secondary electrons by primary electrons and as inelastic reflection of primary electrons and the formation of slow secondary electrons with the motion of quick secondary and of inelastically reflected primary electrons are not taken into account, the comparison between theoretical and experimental data can not be carried out with sufficient exactness. There are 12 figures and 8 references, 2 of which are Slavic.

ASSOCIATION:

Leningrad Polytechnical Institute imeni M. I. Kalinin (Leningradskiy politekhnicheskiy institut imeni M. I. Kalinina)

Card 4/4/

YUNUSOVA, A.N.; MEL'NIKOVA, N.A.; BEREGOVSKAYA, Z.G.; ZAKIROVA, M.I.; SILINA, A.G.

Nutrition of children in preschool boarding establishments in Kazan and suggestions for its improvement. Kaz. med. zhur. no.4:84-88 Jl-Ag *61. (MIRA 15:2)

1. Kafedra gigiyeny pitaniya (zav. - dotsent A.N.Yunusova) Kazanskogo meditainskogo instituta i gorodskoy sanepidstantsii (glavnyy vrach - A.N.Krepysheva).

(KAZAN__CHILDREN__NUTRITION)

USSR / Soil Science. Mineral Fertilizers.

T

Abs Jour: Ref Zhur-Biol., No 7, 1958, 29490.

Author Zakirkova, M.P.

Inst : Not given.

Title : Liquid Nitrogen Fertilizers on Kolkhoz Fields.

(Production Experiments at the Lenin Kolkhoz,

Borodyankiy Rayon, Kiyevskaya Oblast').

(Zhidkiye azotnyye udobreniya na kolkhoznykh polyakh. (Proizvodstvennyye opyty v kolkhoze imeni Lenina, Borodyanskogo rayona, Kiyevskoy

oblasti).

Orig Pub: Udobreniye i urozhay, 1957, No 6, 24-31.

Abstract: No abstract.

Card 1/1

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ZAKIRKOVA, M. P.

Cand Agr Sci - (diss) "Effectiveness of liquid nitrogen fertilizers on the sod-podzolic soils of the Poles'ye /forested area/ of the Ukrainian SSR." Kiev, 1961. 15 pp; (Ministry of Agriculture Ukrainian SSR, Ukrainian Academy of Agricultural Sciences); 250 copies; price not given; (KL, 6-61 sup, 231)

ZAKIROV, I.Z., dotsent; MEMETOVA, U.Z., ordinator

Data on oxyhemometry in normal and pathological pregnancy and labor. Med. zhur. Uzb. no. 2:3-6 f'61. (MIRA 14:2)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. G.I. Ioffe-Golubohik) Samarkhndskogo gosudarstvennogo meditsinskogo instituta imeni I.P. Pavlova. (BLOOD—OXYGEN CONTENT) (PREGNANCY, COMPLICATIONS OF)

KORZHAVIN, B.D., otv.red.; MUKHAMEDZHANOV, M.V., akademik, red.; KHAMAZAROV, D.N., red.; ZAKIROV, K.Z., akademik; red.; RYZHOV, S.N., akademik, red.; YEREMENKO, V.Ye., akademik, red.; DADABAYEV, A.D., akademik, red.; RAKHIMOV, A.A., akademik, red.; DZHALILOV, Kh.W., kand.ekonos.neuk, red.; BONDARENKO, W., red.; BAKHTIYAROV, A., tekhn.red.

等等级者上部的英语的范围也是这种理解,最后来被国际政策的政策和政策的政策的政策和政策的对象,但是这种对政策的主要,但是这种对于对政策的主义,对政策的对象,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是一个人的主义,但是是一个人的主义,但是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是是一个人的主义,但是是一个人的主义,但是是一个人的主义,但是是一个人的主义,但是是一个人的主义,但是是一个人的主义

[Farm management system in recently reclaimed areas of the Golodnaya Steppe; measures for obtaining the maximum output of farm products per 100 hectares of cropland with a minimum expenditure of labor and other means] Sistema vedeniia sel'skogo khoziaistva na zemliakh novogo osvoeniia Golodnoi stepi; meropriiatiia po maksimal'nomu vykhodu sel'skokhoziaistvennykh produktov na 100 ga zemel'nykh ugodii pri naimen'shikh zatratakh truda i sredstv. Tashkent, Gos. izd-vo Uzbekskoi SSR, 1959. 158 p. (MIRA 14:2)

1. Uzbekskoya akademiya sel'skokhozyaystvennykh nauk. 2. Chlenykorrespondenty AN Uzbekskoy SSR (for Korzhavin, Teremenko).
3. AN Uzbekskoy SSR (for Mukhamedzhanov, Zakirov). 4. Uzbekskaya
akademiya sel'skokhozyaystvennykh nauk (for Mukhamedzhanov, Zakirov,
Ryzhov, Yeremenko, Dadabayev, Rakhimov). 5. Ministr sel'skogo khozyaystva UzSSR (for Khanazarov). 6. Chlen-korrespondent Vsesoyuznoy
akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Ryzhov).
7. Direktor instituta ekonomiki Uzbekskoy akademii sel'skokhozyaystvennykh nauk (for Dzhalilov).

(Golodnaya Steppe--Agriculture)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963620005-9"

EGAMBERDYYEV, M.E.: ZAKIROV, M.Z.

Lithology, and petrographic and mineralogical composition of upper Cretaceous and Paleogene clays in Auminzatau (Kyzyl Kum). Uzb. geol. zhur. no.3:55-67 '60. (MIRA 13:11)

1. Institut geologii i razrabotki neftyanykh i gazovykh mestorozhdeniy i Institut geologii AN UzSSR.

(Aminza-tau--Clay--Analysis)

BAYMUKHAMEDOV, Kh.N.; VOL'FSON, F.I.; ZAKIROV, T.Z.; KOROLEV, V.A.; KREYTER, V.M.; KUSHNAREV, I.P.; LUKIN, L.I.; NEVSKIY, V.A.; HIKIFOROV, N.A.; PEK, A.K.; RUSAHOVA, O.D.; SONYUSHKIN, Ye.P.; CHERNYSHEV, V.F.; SHEKHTMAN, P.A.

Aleksei Vasil'evich Korolev; obituary. Geol. rud. mestorozh.
no.4:134-135 J1-Ag '60.
(Korolev, Aleksei Vasil'evich, 1897-1960)

YUNUSOV, A.Yu.; TURSUNOV, Z.T.; ZAKIROVA, V.S.

Effect of some liquids on the bleed in cases of high temperature and dehydration of the body. Isv. AN Us. SSR. Ser. med. no.1:11-21 158. (MIRA 12:7)

1. Institut krayevoy meditsiny AN UESSR.

(BLOOD-ANALYSIS AND CHEMISTRY);

(HEAT--PHYSIDLOGICAL EFFECT)

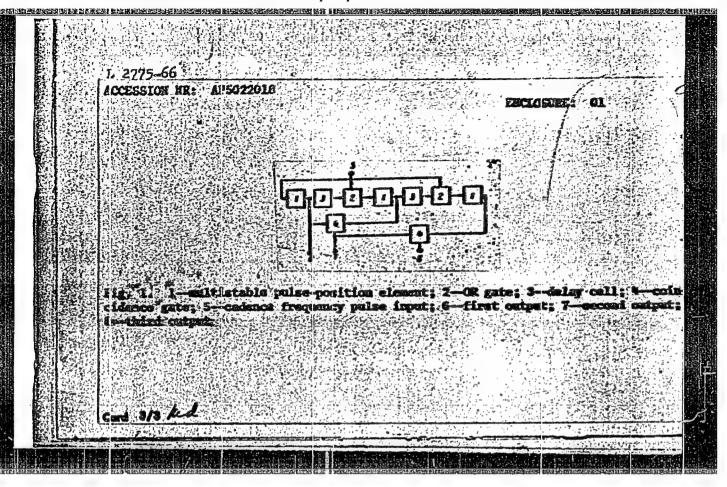
TEREGULOV, G.R., zootekhnik; ZAKIR'YANOV, Sh.Kh., zootekhnik; MENDELEVICH, M.M., red.; LODVIKOVA, A.S., red.; SAGITOVA, S.G., tekhn.red.

[Experience of leading swine breeders of the Tatar A.S.S.R.; based on materials of the Conference of the Swine Breeders of the Tatar A.S.S.R.] Opyt peredovykh svinovodov Tatarii; po materialam respublikanakogo soveshchaniia svinovodov. Kasan'. Tatarakoe kmizhnoe izd-vo, 1960. 68 p.

(MIRA 14:1)

EWT(d)/EED-2 L 2775-66 UR/0286/65/000/014/0087/0088 ACCESSION NR: AP5022018 38 AUTHOR: Zakirzyanov, Z. Sh.; Sitnikov, L. S.; Utyakov, L. L. B What was a second secon TITLE: A pulse repetition frequency divider. Class 42, No. 173032 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 37-88 TOPIC TAGS: pulse recurrence, pulse position modulation, frequency divider ABSTRACT: This Author's Certificate introduces a pulse repetition frequency divider which contains multistable pulse-position elements. The device is designed for givi ing frequency division coefficients as high as desired and output pulse repetition frequencies as low as desired with a rather simple circuit and unified division stages. The input to each pulse-position element is connected through a two-input OR gate to the input of the preceding pulse-position element and to the input of the external pulse source. The input to the first pulse-position element is connected to the external pulse source. The outputs from the first and second elements are connected to the inputs of the first coincidence gate. The output from the first coincidence gate and that from the third pulse-position element are connected to the inputs of the second coincidence gate. The output from the k-th coincidence gate and Card 1/3

ACCESSION NR:	AP5022018				2
from the (k-2)	-th pulse-positi	on element are conne	ected to the (k-1)-th coi	ncidence
	Institut matemat	iki so AN SSSR (Ins	titute of Hath	ematics. SO	AN SSSR)
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		M. Carlotte	•	•	
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ZAKIS, E., kand.tekhn.nauk; DRIZINA, T., inzh.

Evaluating operational costs by means of consolidated ndrms. Avt. transp. 42 no.1:33-35 Ja '64. (MIRA 17:2)

ZAKIS, F., kand. tekhn. nauk; DRIZINA, T., kand. ekonom. nauk

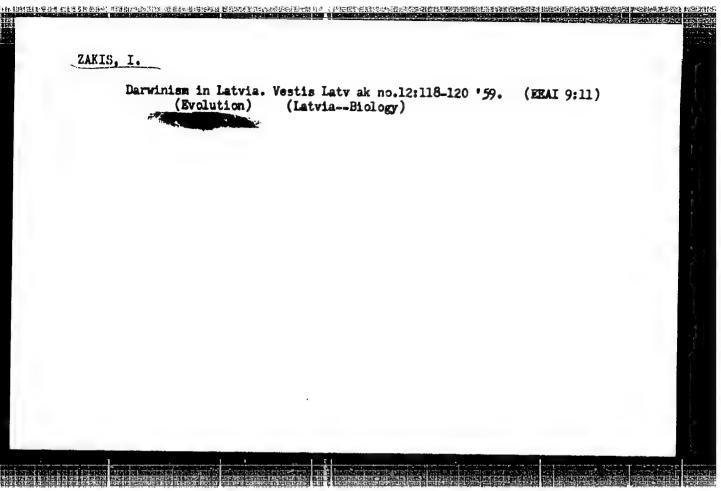
Effect of the concentration of freight operations at railroad stations on the economic indices of automotive transportation. Avt. transp. 43 no.10:35-37 0 '65. (MIRA 18:10)

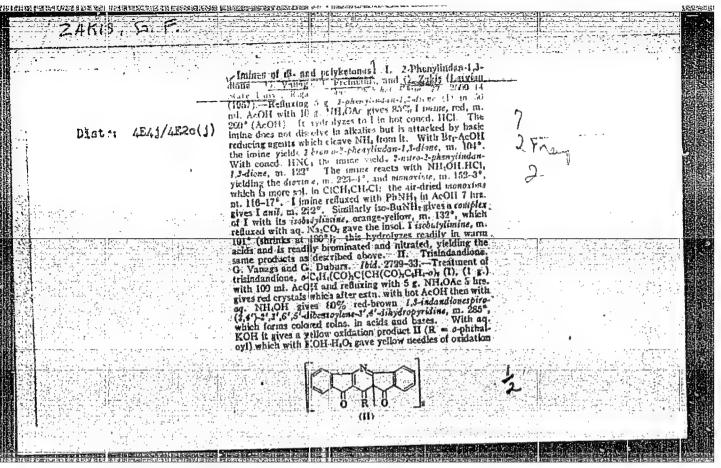
ZAKIS, E.V., kand.tekhn.nauk; PERSIANOV, V.A., kand.tekhn.nauk;
POLUEKTOV, A.P., inzh.

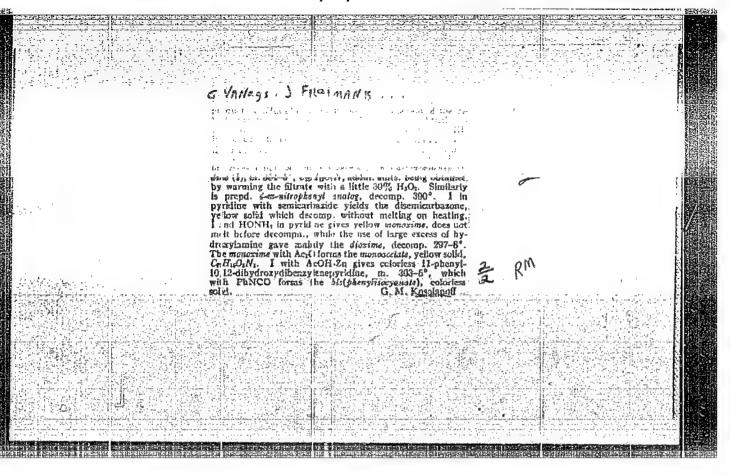
Automatization of operational procedures in railroad transportation.
Zhel.-dor.transp. 43 no.9:64-67 S '61. (MIRA 14:8)
(Railroads)
(Automatic control)

ZAKIS, E.V., kand. tekhn. nauk

Selecting types of passenger platforms for surburbenliner being electrified. Transp. stroi. 14 no.10:35-36,47 0 34.







Za His , I. ya.

KOSHTOYANIS, KM. S.; ZAKIS, I. Ya.

"Charles Darwin. (On the 50th Year of His Death)". (Charl'z Darwin. [K pyatidesyatiletiyu so dnya smerti]).

Probl. Zhivotn., 1932, No 4, 13-21, portr. [Together with I. Ya. Zakis]

SOV/112-57-9-20048

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 9, p 305 (USSR)

AUTHOR: Zakis M.

TITLE: State of the Radio Industry in Bourgeois Latvia and Its Development in Soviet Latvia (Sostoyaniye radiopromyshlennosti v burzhuaznoy Latvii i yeye razvitiye v Sovetskoy Latvii)

PERIODICAL: Izv. AN LatvSSR, 1956, Nr 4, pp 97-104

ABSTRACT: In bourgeois Latvia, most radio receivers had one or two tubes, their production was in short series, and semi-artisan methods were used on a low technical level. There was no specialized factory for producing radio receivers, production was based on imported parts. Output in bourgeois Latvia was I radio receiver per 61 men; in Soviet Latvia there is (1954) 1 radio receiver per 6.3 men. At the present time, 4 large factories are in operation manufacturing radio equipment from local raw materials with an output of 4, million sets. Soviet Latvia manufactures two types of radio receivers of the first class, "Mir" and "Riga-10," two second-class types, "Baltika" and Riga-6," and one

Card 1/2

SOV/112-57-9-20048

Conditions of the Radio Industry in Bourgeois Latvia and Its Development in . . . type of radiosonde. According to the directives of the 20th Congress CPSU, production in 1960 should be 10.2 million radio receivers and TV sets:

T.A.S.

AVAILABLE: Library of Congress

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35M/6 744.71 .Z2

Zakis, Martin Petrovich

Tekhnicheskiy progress v radiopromyshlennosti Sovetskoy Latvii [Technical progress in the radio industry of Soviet Latvia] Riga, Izd-vo Akademii Nauk Latviyskoy SSSR, 1957.

121 p. illus., tables. Bibliographical footnotes.

At head of title: Akademiya Nauk Latviyskoy SSR.

ZAKIS, V. I.

33865. C Rastyazhyenii Po Dolgotye BiPolyarnykh Grupp Solnyechnykh Pyatyen. Byullyetyen Vsyesoyuz. Astron.-Gyeodyez. C-va, No 6, 1949, C. 31-33.

SO: LETOPIS' Zhurnal'nykh Statey, Vol. 46, Moskva, 1949.

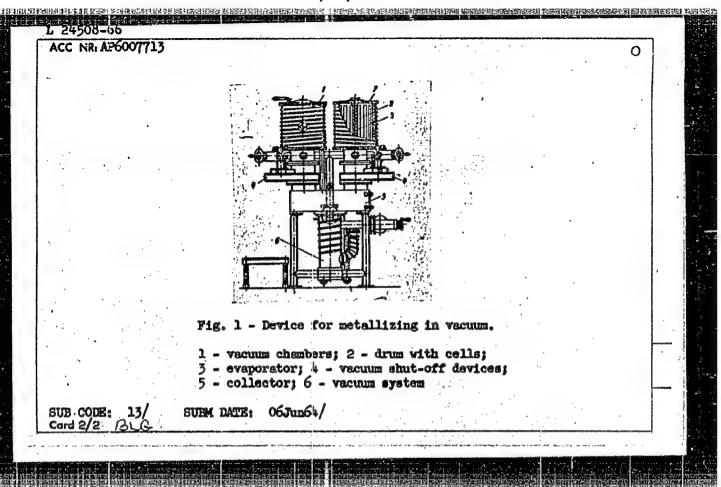
ZAKIS, Martin Petrovich; GRINBERG, E., red.; LEVI, S., red.; BOKMAN, R., tekhn. red.

[Technological progress of the radio equipment industry in Soviet Latvia] Tokhnicheskii progress v radiopromyshlennosti Sovetskoi Latvii. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1957. 121 p.

(MIRA 15:2)

(Latvia--Radio industry)

ACC NR: AP6007713	SGURCE CODE: UR/0413/66/000/003/0112/0112
AUTHOR: Grinshpun, S. I.; 2	ekis, Ya, M.; Kokle, A. L.; El'perin, S. I.
ORG: none	18
	ng in varuum. Class 48, No. 178635 [Announced by the
	ice for Metallizing in Vacuum, Council of National Econo- ko-technologicheskoye byuro metallizatii v vakuume SNKh
Latviyskoy SSR)	
SOURCE: Izobreteniya, promys	shlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 112
TOPIC TAGS: metallizing, vac	cum metallizing
in vacuum. It consists of vershut-off devices, shut-off devices, shut-off de a vacuum-producing system. It the evaporators are made to sthe entire space of the collections.	cate has been issued describing a device for metallizing acuum chembers with drums, cells, evaporators, vacuum evices, a collector, an oil-absorbing filled trap, and To simplify the design and reduce the operating cycle, serve simultaneously as glow-discharge electrodes and ector is filled with an oil-absorbing material. To secure position, it is equipped with a self-adjusting lever-type [LD]
	. 2
Card 1/2	UDC: 621.793.093.14



IJP(c) EMT(m)/EMF(t)/ETI L 37706-66 SOURCE CODE: UR/0259/66/000/001/0002/0007 ACC NR: AP6027710 AUTHOR: Zakis. Yu. ORG: none TITLE: New rival of semiconductors SOURCE: Nauka i tekhnika, no. 1, 1966, 2-7 TOPIC TAGS: semiconductor diode, semiconducting material ABSTRACT: The greater part of the article describes in semitechnical language the discovery, construction, and operation of semiconductor diodes and triodes. This is, followed by the description of "hot electron" production from insulator-metal layers discovered in the USA in 1960, and the discussion of possible future uses of semi-Orig. art. has: 7 figures. [JPRS: 36,462] SUB CODE: 109 SUBM DATE: nono W Card 1/1

208月7

s/048/61/025/003/030/047 B104/B202

24.3500 (1138, 1153,1395

Shmits, O. Á. and Zakis, Yu. R.

Optical properties of alkali halide crystals with 0-, S-, AUTHORS:

Se- and Te-impurities TITLE:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya,

v. 25, no. 3, 1961, 385-386 PERIODICAL:

TEXT: This paper was prosented at the 9th conference on luminescence (crystal phosphors), Kiyev, June 20 to 25, 1960. The studies are described which were made in continuation of those of 1959 of alkali halide crystals with O-, S-, Se-, and Te-impurities. The KCl KBr and KJ crystals were obtained by breeding by the method of Stockbarger or by diffusing impurity vapor into colored crystals. The study of the absorption spectra of the crystals containing oxygen impurities showed results which were in agreement with those obtained by western scientists in earlier papers. Fig. 1 shows the absorption spectrum (curve 1), the excitation spectrum (curve 2), and the spectrum of photoluminescence (curve 3) in the case of excitation with λ = 313 m μ of a KBr-Se crystal. A KBr-Te crystal has a similar

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Optical properties of alkali...

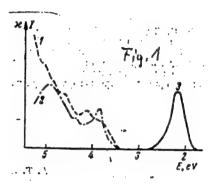
spectrum. The KCl crystals with the above impurities show a monotonic increase of absorption into the direction of shorter waves without distinct maxima. All crystals have weak photoluminescence in the visible range which has hitherto not been studied more accurately. Absorption in KJ crystals with the same impurities increases into the same direction, however, maxima can be observed. They also exhibit photoluminescence in the visible range of the spectrum. Hence, it is obvious that the absorption and luminescence spectra of KCl, KBr, and KJ crystals with O-, S-, Se-, and Te-impurities are characteristic of this type of impurities. This becomes especially manifest by the fact that these spectra of the mentioned crystals are completely different when containing Cu or Pb. Furthermore, it was clearly observed that the maxima of these spectra decrease with decreasing concentration of the impurities. It is assumed that the mentioned impurities, are bivalent anions in the crystal lattice. In the following discussion Ch. B. Lushchik states that the major part of the papers deals with the study of cation impurity luminescence centers and that more attention should be paid to the anion luminescence centers. There are 1 figure and 4 non-Soviet-bloc references,

card 2/3

20841 S/048/61/025/073/730/947 B194/B292

Optical properties of alkali...

ACSOCIATION: Latviyskiy gos. universitet im. P. Stuchki (Latvian State University imeni P. Stuchki)



Card 3/3

ACCESSION NR: AT4016303

8/0000/62/000/000/0160/0163

AUTHOR: Alekseyeva, L. A.; Zakis, Yu. R.; Shmit, O. A.

TITLE: Optical properties of alkali halide crystals with admixtures of elements of the sixth group

SOURCE: Vses. soveshch. po fiz. shchelochnogaloidn. kristallov. 2d, Riga, 1961. Trudy*. Fiz. shchelochnogaloidn, kristallov (Physics of alkali halide crystals). Riga, 1962, 160-163

TOPIC TAGS: alkali halide, alkali halide crystal, optical property, luminescence, absorption spectrum, crystal impurity, spectrophotometry, sulfur admixture, selenium admixture, tellurium admixture

ABSTRACT: Crystals of alkali halides such as NaCl, KCl, KBr and KI, containing small amounts of S, Se, Te, Na₂S or ZnS as impurities, were subjected to spectroscopic studies. Comparison of the absorption, excitation and luminescence spectra of such activated crystals revealed a series of weak maxima in the near-ultraviolet and visible absorption spectra, while the excitation spectra showed 1-4 clear maxima in the near-ultraviolet, only some of which, however, coincided with the maxima in the absorption

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ACCESSION NR: AT4016303

spectra. In the case of KBr crystals containing S or Se, the excitation spectra were affected by the method of crystallization. The luminescence spectra showed 1-2 maxima in the visible spectrum, sometimes accompanied by maxima in the near-infrared; these spectra were affected by the temperature and the wavelength of the excitatory light. The luminescence of most of these crystals were only weakly polarized. The results of these studies and studies of the quenching temperature indicate that S and Se probably enter into the crystal lattice as anions; among the systems investigated, only NaCl-Te, KCl-Te and KI-S were non-isomorphous, resulting in only slight luminescence. It is apparent that the luminescence centers are not merely ion activators, and that there are least two types of addition centers in these crystals. "Thanks are expressed to N. Ye. Lushehik for supplying pure S and Se, and to P. P. Feofilov (Doctor in the Physico-Mathematical Sciences) for making available an instrument for measuring the polarization of the luminescence." Orig. art. has: 3 figures.

ASSOCIATION: Latviyskiy Gosularstvenny'y universitet im. P. Stuchki (Latvian State University)

SUBMITTED: 00
SUB CODE: IC OP

DATE ACQ: 06Mar64

ENCL: 00 OTHER: 001

SHEAITS, O.A.; ZAKIS, Yu....

Optical properties of alkali halide crystals containing an impurity of 0, S, Se, or Te. Izv.AN SSSR. Ser. fiz. 25 no.3:385-386 Mr '61.

(MIRA 14:2)

 Latviyskiy gosudarstvennyy universitet imeni P. Stuchki. (Alkali halide crystals—Optical properties)

ALLED DE LIGHTE LEGAL DES DES DES DE LEGALES DE COMPANIE DE LEGALES DE 1. 49279-65 ENT(1)/ENT(m)/EEC(b)-2/T/ENP(b)/ENP(t) P1-4 LJP(c) (G/JE/JG ACCESSION NR: AP5009520 8/0048/65/029/003/0441/0442 AUTHOR: Makis, Yu.R. TITLE: Outical properties of alkali halide crystals with impurity anions Report 12th Conference on Luminescence held in L'vov. 30 Jan-5 Feb 1964/ SOURCE: AR SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 3, 1965, 441-442 TOPIC TAGI: luminescence, alkali halide, potassium compound, hydroxide, carbonate, nitrate ABSTRACT: KC1 and KBr crystals grown in air by the Kyropoulos procedure are known to exhibit a yellow luminescence, the intensity of which is increased by doping with KOI, K2CO3, or KNO2. This luminoscence is presumed to be due to 02 ions ecoupying anion sites in the lettice. The author hypothesizes that the 02 ions are formed by a two-stage process in which the dopant first reacts with the host to form an alkali notal oxide, and this subsequently reacts with free oxygen to form the oxygen molecule ion. To test this hypothesis he has investigated the luminescence on KNO3, K2CO3, and KOH doped KBr crystals grown in vacuum in sealed tubes. These crystals did not exhibit the yellow luminescence, but under some domittions Card 1/2

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ACCESSION NR: AP5009520	n							
they could be induced to	o luminesce in	the orange or green.	The orange lumine	scence				
appeared in vacuum grown	neared in vacuum grown KOH-doped KBE crystals grown from insufficiently dried KBE							
It is ascribed to a proc	is ascribed to a product of the reaction between KOH, H2O, and the host KBr.							
The green luminescence	e green luminescence appeared in valuum grown K2CO3-doped KBr crystels after they deen heated in a CO2 atmosphere, and also in powdered KBr after heating in air							
nearly to the melting p	oint. Very pu	e KBr powder (obtaine	d from large pure	single				
grustals) however, did	not show the	rrean luminescence aft	er heating in air.	The main the				
green lundnescence is a	scribed to imp	rity anions formed as	-a-result of react	ion of				
alkali halide salts with	h absorbed gas	es. "In conclusion I	express my deep gr	ati-				
tude to C.A.Shmit for h	in guidance of	the work." Orig. art	. bas: 3 figures.					
ASSOCIATION: None								
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的工程,这个人的一个人,这个人的一个人,我们们的一个人,我们们的一个人,我们们们的一个人,我们们们们的一个人,我们们们们的一个人,我们们们们的一个人,我们们们们 . 53121-65--ENT(1)/ENT(a)/T/ENT(t)/EDD(b)-2/ENT(b)-1.10(61--JD/G1-ACCESSION NR: AP5019979 UR/0371/65/000/002/0053/0062 AUTHOR: Zakis, J. (Zakis, Yu. R.) TITLE: Effect of oxygen-containing impurity anions on the optical properties of KBr-Cu crystal phosphors Sounce: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk. no. 1965. 53-62 TOPIC TAGS: luminescence center, potassium bromide, crystalline phosphor roentgenoluminescence ABSTRANT: The object of the work was to study the role of various oxygen-containing anions in the formation of photoluminescence centers in KBr-Cu crystal phosphors. Absorption (in the ultraviolet, visible, and infrared), luminescence, and excitation spectra of the KBr-Cu phosphors containing OH-, CO3--, and SO4-ions were investigated. The presence of these anions can substantially decrease the luminescence intensity at the 3.17 el maximum because of the formation of complexes between copper and the impurity anion which do not luminesce. In KBr-Cu crystal phosphors containing 504 - ions, the copper ions form complexes with the latter which produce a bright green luminescence at 2.40 eV. In almost all KBr

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of this luminescence upon in that a change in the concent treen luminescence, that the by X-rays is probably due to that the appearance, upon X-	impurity ions may be the causatroduction of copper impurities tration of vacancies does not a decrease in the latter as a rolling ionization of the centers of irradiation, of centers production,	ea, It is concluded affect the intensity of cesult of irradiation this luminescence, and the luminescence at 1.	
5 figures. ASSOCIATION: Latviyskiy gos	sudarstvennyy universitet im. P		
eV results from the breakdow 5 figures. ASSOCIATION: Latviyskiy gos State University) SUBMITIED: 10Dec64			X
5 figures. ASSOCIATION: Latviyskiy gos State University) SUBMITIED: 10Dec64	sudarstvænnyy universitet im. P	. Stuchki (<u>Latvian</u>	×
5 figures. ASSOCIATION: Latviyskiy gos State University)	sudarstvænnyy universitat im. P ENČL: 00	. Stuchki (<u>Latvian</u>	×

ACE NR RF6003170 LJP(c) (10 SOURCE CODE: UR/0030/65/000/012/0096/0097

AUTHOR; Vitol, I. K.; Zakis, Yu. R.; Kundzin', A. P.

62

ORG: none

TITLE: Study of electronic processes in thin film structures (Symposium in Riga)

SOURCE: AN SSSR. Vestnik, no. 12, 1965, 96-97

TOPIC TAGS: thin film circuit, semiconducting film, pn junction, space charge, electronic conference, semiconductor carrier, electron emission, solid state physics conference

ABSTRACT: A symposium on electronic processes in thin film structures was held in Riga on May 20-25, 1965. The symposium was sponsored by the Scientific Councils on Semiconductor Physics and Chemistry and Physical Electronics of the Academy of Sciences SSSR, the Scientific and Technical Council of the Ministry of the Electronics Industry of the SSSR and the Latvian University im. P. Stuchki. A total of 350 representatives of scientific organizations from Moscow, Leningrad, Gorkiy, Tashkent, Vilnius, Kiev, Riga, and other cities attended the symposium. The following problems were discussed: physical mechanisms of the pas-

Card 1/2

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ACC NR: AP6003170

sage of current through thin film structures, currents limited by space charge, studying properties of contacts by studying the behavior of hot during passage of current, physics of contact phenomena; theoretical studies of electric and physical properties of thin films (particularly tical studies of the behavior of carriers in thin films (particularly tical studies of the behavior of carriers in thin films, and analysis

SUB CODE: 20/ SUBM DATE: none

Card 2/2

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B

L 24640-66 EWT(m)/T/EWP(t) TJP(c) JD/JO

ACC NR: AP6010265 SOURCE CODE: UR/0371/66/000/001/0054/0059

AUTHOR: Zakis, Yu. R. (Zakis, J.)

ORG: Latvian State University im. P. Stuchka (Latviyskiy gosudarstvennyy universitet)

TITLE: Investigation of the vibrational absorption spectra of oxygen-containing anion impurities in <u>alkali</u> halide crystals

SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk, no. 1, 1966, 54-59

TOPIC TAGS: IR absorption, absorption spectrum, alkali halide, single crystal; impurity center, crystal impurity, vibration spectrum, anion

ABSTRACT: The author studies the infrared absorption spectra of potassium bromide single crystals containing impurities of sodium sulfate, sodium sulfite and sodium selenite in the region of stretching vibrations of the impurity anions. Since these ions form complexes with crystal lattice defects or with other impurity ions in alkali halide crystals, an investigation of the vibrational absorption spectra of these ions may elucidate the structure of the complexes. The crystal specimens were grown from the melt by the Kyropoulos procedure in air and by the Stokebarger method in open quartz ampules. The sulfate and selenite ions were introduced in concentrations of 0.02 to 0.05 mol %. The IR absorption spectra were measured on an IKS-14 spectrophoto-

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ACC NR: AP6010265

meter in the 700-1600 cm⁻¹ range. The experimental results show a promising future for analysis of vibrational absorption spectra of complex impurity anions in alkali halide crystals as a tool for studying the structure of impurity centers. It is shown that the conditions under which the crystals are grown have a considerable effect on the oxidation-reduction reactions which take place between the impurity and the ambient medium during growth. It is found that the impurity centers consist of an oxygen-containing anion and two anion sites which are not occupied by halide ions. It is established that copper and calcium impurity cations form complexes made up of impurity anions and cations in KBr crystals with Na₂SO₄ impurity. In conclusion, I am sincerely grateful to O. A. Shmit for directing the work. Orig. art. has: 5 figures.

SUB CODE: 07/ SUBH DATE: 20Apr65/ ORIG REF: 020/ OTH REF: 004

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43

J. 00903-67 MMT(m)/EMP(t)/ETI IJP(c) JD
ACC NO. AP6033671 SOURCE CODE: UR/0371/66/000/004/0046/0052

AUTHOR: Zakis, Yu. R. -- Zakis, J.

ORG: Latvian State University im. P. Stuchko (Latviyskiy gosudarstvennyy universitet)

TITLE: Investigation of complex impurity centers in KBr-Cu phosphors with anionic impurities

SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk, no. 4, 1966, 46-52

TOPIC TAGS: impurity center, luminescence, electron transition, phosphor, crystal phosphor, potassium bromide crystal, crystal impurity

ABSTRACT: The results have been presented of a study of impurity centers in KBr crystals with aninonic impurities of CO_3^- , SO_3^- and ScO_3^- . Analysis of IR and UV absorption spectra and spectral characteristics of luminescence indicate that there are complex impurity centers in crystals. These centers consist of impurity Cu anions and ions. It is shown that the electron absorption spectrum in the region of 3.5—50 ev and the luminescence of the complex centers are due to

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ACC NR: AP7004985

SOURCE CODE: UR/0048/66/030/009/1504/1505

AUTHOR: Zakis, Yu.R.

ORG: none

TITLE: Investigation of the luminescence centers in KBr crystals containing copper and oxygen-containing anionic impurities /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 16-23 Sept. 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.30, no.9, 1966, 1504-1505

TOPIC TAGS: luminescent crystal, alkali halide, potassium bromide, copper, oxygen, anion, cation, impurity center, luminescence spectrum, absorption spectrum,

ABSTRACT: The author briefly discusses on the basis of data and interpretations (some of them his own) already in the literature the infrared absorption and luminescence excitation spectra of KBr crystals containing Cu⁺, Oh⁻, NO₂⁻, NO₃⁻, CO₃²-, SO₄²-, and other similar impurities. In some cases the nature of the oxygen-containing anionic impurity depends on the atmospheric oxygen pressure during growth of the crystal. The fact that the infrared absorption peaks are narrow has given rise to the hypothesis that NO₂⁻, NO₃⁻, CO₃²-, SO₄²-, SeO₃²-, and SeO₄²-impurities are located on anionic lattice sites in KBr. SO₃²-, SO₄²-, SeO₃²-, and SeO₄²- have been found to relieve the degeneracy of degenerate vibrational levels and to give rise to absorption peaks associated with symmetric bond stretching vibrations; this indicates

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ACC NR. AP7004985

the presence of a lattice defect, probably an anionic vacancy, in addition to the impurity anion on an anionic lattice site. Copper ions form complex impurity centers with some oxygen-containing anions. The characteristics of the electronic and luminescence spectra of Cu⁺ ions differ considerably in the presence of different oxygen-containing anions; this phenomenon, and its analogs in the case of other cations, can be employed to investigate the interactions of different impurity ions in crystals, and the luminescence characteristics of cation activated alkali halide crystal phosphors can be altered by the introduction of anionic impurities. Orig. art.has: 2 figures.

SUB CODE: 20 SUBM DATE: none ORIG. REF: 005 OTH REF: 006

Card 2/2

ACC NR: AP7004987

(A) SOURCE CODE

SOURCE CODE: UR/0048/66/030/009/1509/1510

AUTHOR: Kundzin', A.P.; Aleksandrov, S.B.; Zakis, Yu, R.

ORG: none

TITLE: Concerning the mechanism of electroluminescence of thin cadmium sulfide films /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 16-23 Sept. 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no.9, 1966, 1509-1510

TOPIC TAGS: electroluminescence, cadmium sulfide, semiconducting film, photo emf

ABSTRACT: The authors investigated the electroluminescence of 1 mm² "sandwich" structures consisting of the following elements successively vacuum deposited onto glass substrates: a semitransparent gold film electrode; an approximately 1 micron thick film of cadmium sulfide into which no particular activator impurity had been introduced, and a 200 micron thick indium film electrode. The indium-phosphor contact was practically ohmic, but rectification was found to take place at the gold-phosphor contact. The temperature dependence of the current-voltage characteristic revealed the presence of a 0.6-0.7 eV Schottky barrier. The current-voltage characteristics had approximately the same shape at 90° K as at room temperature, but the currents were some four orders of magnitude smaller at the lower temperature. The rapid rise of the current in the forward direction (with the gold positive) set in at a potential

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somewhat below 1 V. The electroluminescence threshold potential was somewhat higher than 1 V, and the luminescence brightness increased very rapidly with increasing voltage. The luminescence spectrum showed a broad band in the 600-700 mu region and a weak edge emission band. Photo-emf's (with the gold electrode positive) reaching 0.45 V at room temperature were observed. The photo-emf excitation curve had a peak at 620 mu and in the 500-400 mu region it was rising monotonically with increasing photon energy. It is concluded that the low-voltage stationary electroluminescence of the investigated systems in a dc field is due to double injection of carriers, i.e., to the simultaneous injection of electrons and holes. The authors thank Yu.R.Berkovich for measuring the height of the barrier and V.L.Shteynberg for determining the photo-emf excitation curve. Orig. art. has: 1 figure.

SUB CODE: 20 SUBM DATE: none ORIG. REF: 006 OTH REF: 011

Card 2/2

KONSTANTINOVA, V.V.; BELUGINA, G.V.; ZAKIYEVA, S.Kh.; REBINDER, P.A.

Effect of surface-active agents on the strength of structures of concentrated nonaqueous suspensions. Koll.zhur. 25 no.5:555-560 S-0 '63. (MIRA 16:10)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

 PETROV, S.M., red.; PROKHOROV, V.I., red.; RUMYANTSEV, A.F., red.; SHI-TAREV, G.I., red.; SHITOV, N.F., red.; ZAKLADNAYA, V.M., red.; NAUMOV, K.M., tekhm. red.

[Toward the victory of communist labor; work practice of the party, Communist Youth League and trade-union organizations with communist labor brigades] K pobede kommunisticheskogo truda; ob opyte raboty partiinykh komsomol'skikh i profsoiuznykh organizatsii s brigadami kommunisticheskogo truda. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1961. 271 p. (MIRA 14:8)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola.

(Socialist competition)

ZAKLINSKAYA, YE. D.

"Significance of gynmospermous pollen for the stratigraphy of the Upper Cretaceous-Lower Paleocene and the botanical-geographical province on the Cretaceous-Tertiary boundary."

"The pollen-spore spectra of the Cretaceous-Tertiary Boundary."

"Taxonomy and nomenclature of fossil spores and pollen in the USSR."

Reports to be submitted to the Intl. Conf. on Palynology, Tucson, Arizona 23-27 Apr 1962.

AS, USSR

化异元子元素 经非常分别的证据 电影的 医外腺性原理 医神经性肠炎 医外外线 医多种线 医皮肤性神经 经自己的

ZAKLINSKAYA, Ye.D.

Paleofloristic principles for correlating Conozoic sediments in

Kazakhstan and adjacent parts of the West Siberian Plain. Izv. AN SSSR. Ser. geol. 23 no.10:72-86 0 58. (MIRA 12:1)

1.Geolegicheskiy institut AN SSSR, Moskva.
(Kazakhstan-Geology, Stratigraphic)

(West Siberian Plain-Geolegy, Stratigraphic)

(Paleo bo tany)

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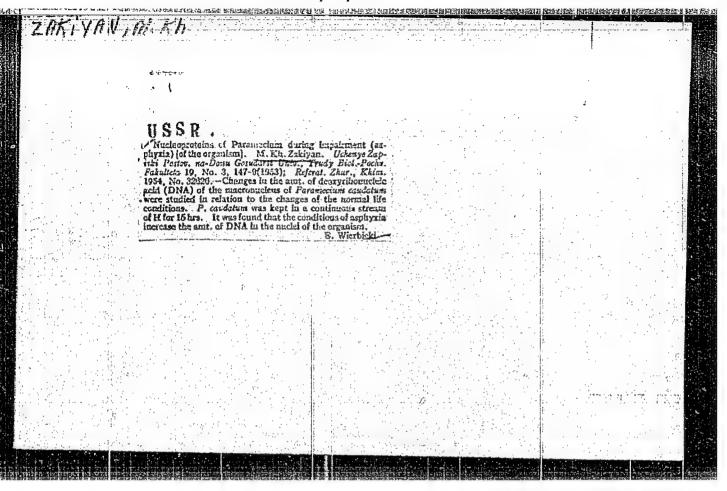
Nor., Rostov.-Ch-Don State Univ. in. V. M. Mololov, -cl. AC-.

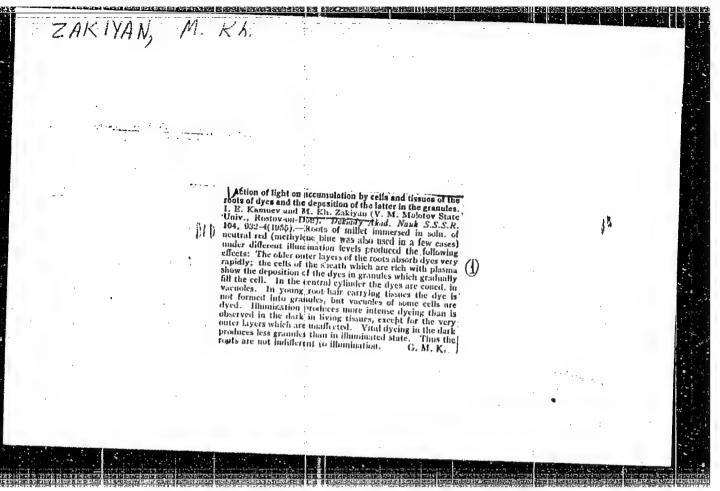
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No. 5, 120.

- 1. SERGEYEV, V. Z.; ZAKTYAN, M. Kb.
- 2. USSR (600)
- 4. Plants, Effect of Temperature on
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М

Country : USSR

Category: Cultivated Plants Commercial. Oil-Bearing.

Sugar-Bearing.

Abs Jour: RZhBiol., No 11, 1958, No 49046

Author : Kammev, I. Ye.; Zakiyan, M. Kh.; Butkova, G.B.;

Novik, N.P.

Inst : Rostov-na-Donu University

Title : Viability Changes in the Seeds of Sunflowers and

Castor Oil Plants During Storage.

Orig Pub: Uch. zap. Rostovsk.-n.-D. un-t, 1956, 26, 85-92

Abstract: Two methods have been tested for the purpose of

quickly determining the viability of the seeds. One method, using live staining, is based on the fact that the dyestuff (methylene blue) penetrates into normal living cells and concentrates in the form of

Card : 1/3

M-121

Country : USSR

Category: Cultivated Plants. Commercial. Oil-Bearing.

Sugar-Dearing.

Abs Jour: RZhBiol., No 11, 1958, No 49046

separate granules, while the protoplasm and the nucleus are not stained. In aged cells, the intensity of granule formation is reduced. In dead cells, no granules are formed, the protoplasm and nucleus stain diffusely. The second method, using microscopic cell observations against a dark ground, is based on the fact that in the absence of light, the nucleus and protoplasm of normal cells are invisible. If a cell is subjected to unfavorable conditions, a radiance is seen in the nuclear membrane and granules of protoplasm. Live staining may be used as a quick and safe method for

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CIA-RDP86-00513R001963620005-9" APPROVED FOR RELEASE: 09/19/2001

Country : USSR

Category: Cultivated Plants Commercial. Oil-Bearing.

Sugar-Bearing.

Abs Jour: RZhBiol., No 11, 1958, No 49046

the determination of seed vitality, while the method of observing the cells against a dark

ground is recommended as an auxiliary procedure. --

D.B. Vakhmastrov

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M-122

CIA-RDP86-00513R001963620005-9" APPROVED FOR RELEASE: 09/19/2001

KHODKEVICH, E.; KHALIULLIN, R., instruktor-aviamodelist (g.Sitka, Chelyabinskoy obl.); BELOUSOV, A., master sporta; ZAKIYEV, F.

Facts, events, people. Kryl.rod. 12 no.9:22-23 S '61. (MIRA 14:9)
(Aeronautics)

THE PARTY OF THE P

MITROKHIN, I., slesar'; ZAKIYEV, G., elektromonter

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1. Profsoyuznyye organizatory grupp Otdela energetiki tsekha sborki i ispytaniy avtomobiley Moskovskogo zavoda im. Likhacheva. (Labor laws and legislation)

ZAKIYEV, Kh. Ya., kand. geogr. nauk

Distribution of mean annual air temperatures in eastern Antarctica. Inform. biul. Sov. antark. eskp. no.8:5-7 '59. (MIRA 13:3)

1.Rostovskiy-na-Donu universitet.
(Antarctic regions--Atmospheric temperature)

ZAKIYEV, Kh. Ke., kand. geograf. nauk; BURIACHENKO, M.G., inzh. aerofotogeodezist

Dynamics of the margin of continental glaciation in the Davis Sea.

Inform. biul. Sov. antark. eksp. no.5:23-25 '59.

(MIRA 12:10)

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(Davis Sea--Ice)